Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **17CA2006** | **Duration :** | **3hrs** |
| **Sub. Name :** | **DATABASE MANAGEMENT SYSTEMS** | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Discuss about the database architecture in detail. | CO1 | 20 |
| **(OR)** | | | | |
| 2. |  | Elaborate on various relational algebra operations. | CO2 | 20 |
|  |  |  |  |  |
| 3. |  | Construct the following query for the employee table (Assume that employee table contain the following attributes:empno, name, deptno, deptname, phno, salary, designation).   1. Create a view called empview (view must contain empno, name, phno,salary). 2. Insert a record into the empview. 3. Select all the record from the view 4. Update the salary as 50000, if the designation is associate professor. 5. Delete a record from the empview. | CO4 | 20 |
| **(OR)** | | | | |
| 4. |  | Summarize about the Dynamic SQL. | CO4 | 20 |
|  |  |  |  |  |
| 5. | a. | Draw the various notation of E-R model and discuss the same. | CO3 | 10 |
| b. | Draw an E-R diagram for student paying the fees. | CO3 | 10 |
| **(OR)** | | | | |
| 6. |  | Develop an E-R diagram for banking enterprise and discuss the same. | CO3 | 20 |
|  |  |  |  |  |
| 7. | a. | Explain about the file organization in detail. | CO6 | 10 |
| b. | Describe the data in detail. | CO3 | 10 |
| **(OR)** | | | | |
| 8. |  | Elaborate the various types of normalization in detail. | CO4 | 20 |
|  | | **Compulsory**: |  |  |
| 9. |  | Describe the various lock-based protocols in detail. | CO5 | 20 |